

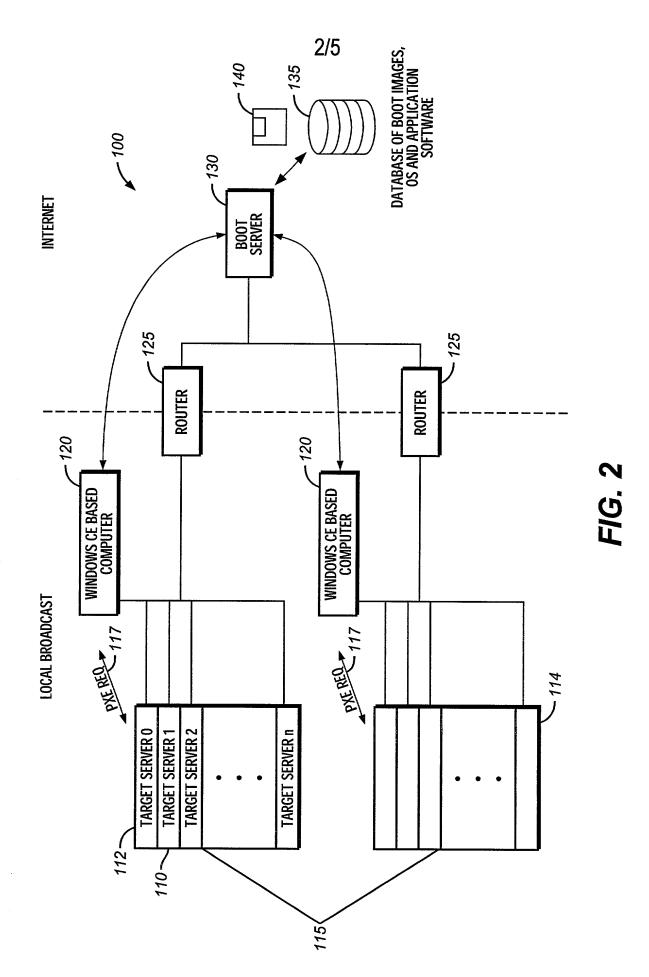
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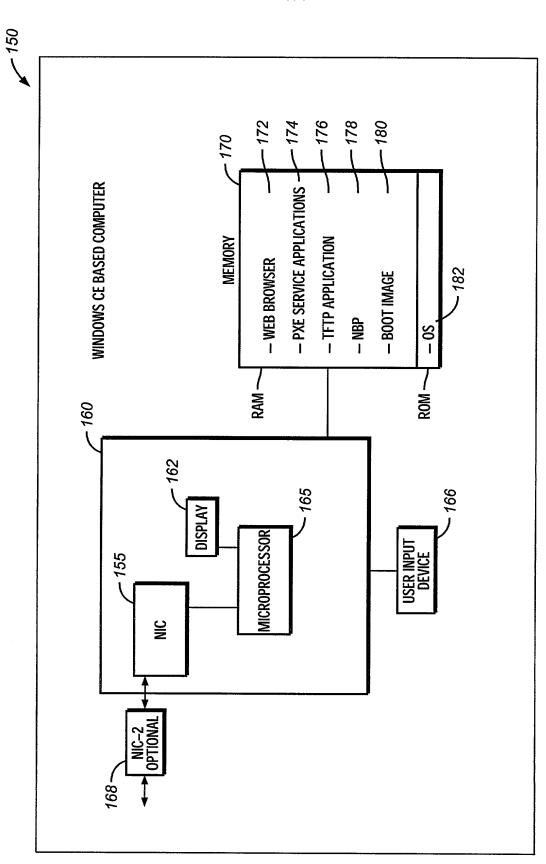
- 30 **NET BOOT PROGRAM (NBP) START** - 35 **ISSUE BOOTSERVER REQUEST** WAIT FOR RESPONSE (IF (TIMEOUT) RETRY 4x) 40 IF (BOOTSERVER REQUEST SUCCESSFUL) GET THE BOOTSERVER NAME, IP ADDRESS **BOOTFILE NAME FROM RETURNED PACKET.** - 45 MAKE TFTP READ REQUEST FOR BOOTFILE AT ADDRESS SPECIFIED IN THE BINL PACKET - 50 TFTP READ WILL PLACE FILE IN AN AREA OF RAM LOCATED IN HIGH MEMORY. CONTINUE TO COMPLETION OF FILE DOWNLOAD (16MB — SIZE OF BOOTFILE) THIS ENSURES THAT LOW MEMORY IS **AVAILABLE PROGRAM USAGE AFTER BOOT** STRAP PROCESS IS INITIATED - 55 HOOK DOS INTERRRUPTS FOR READING FLOPPY DRIVE (INT 13h) SUCH THAT ALL REQUEST TO READ FROM THE FLOPPY DRIVE ARE REDIRECTED TO BE READ FROM THE BOOTFILE IMAGE LOCATED IN HIGH MEMORY 60 **RELOCATE MASTER BOOT RECORD** FROM DOWNLOADED BOOTFILE TO 7COOH USING INT 13h · 65 **DETERMINE AVAILABLE MEMORY** (640 -SIZE OF NBP) AND SET **MEMORY LOCATION** - 70 JUMP TO MASTER BOOT RECORD **LOCATED AT 7COOH AND BOOTFILE WILL BEGIN EXECUTING** 

FIG. 1B

TITLE: EMBEDDED OS PXE SERVER INVENTOR: James F. Frye, Jr. ATTY DKT NO.: H052617.1138US0









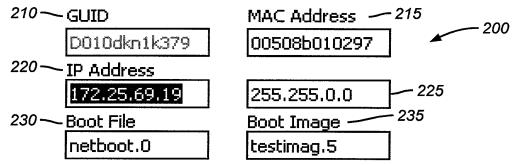






FIG. 4

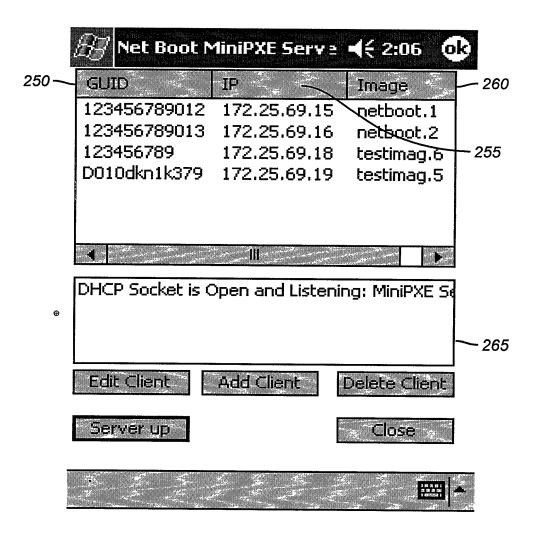


FIG. 5